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Accessories for the mobile Power Quality Analyzers

PQ-Box family

Oct-19

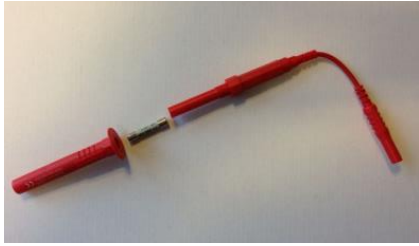| Accessoires	
Rogowski coil set CAT IV 600V Current range: 1A to 3000A RMS, Accuracy: 1% size: 61 cm (24"), <u>set of 4 pieces</u> Diameter = 194mm, Rogowski clamp head = 9,9mm Frequency range: 10Hz to 20kHz **Order code: 111.7001**	
Rogowski coil set CAT IV 600V Current range: 1A to 6000A RMS, Accuracy: 1% size: 91 cm (36"), set of 4 pieces Diameter = 290mm, Rogowski clamp head = 9,9mm Frequency range: 10Hz to 20kHz **Order code: 111.7006**	
Rogowski coil set CAT IV 600V Current range: 1A to 500A RMS; Accuracy: 1% size: 22 cm (9"), <u>set of 4 pieces</u> Diameter = 70mm, Rogowski clamp head = 6,1mm Frequency range: 10Hz to 50kHz **Order code: 111.7085**	
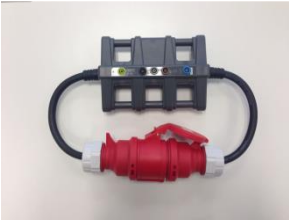
Accessoires	
Current clamp 4 probes CAT III 600V MU-Metal clamp with two switchable measurement ranges, 15 mm inner diameter, <u>set of 4 pieces</u> (high precision – low angle error) Switchable measurement range 0…20A…200A **Order code: 111.7015**	
Current clamp 4 probes CAT III 600V Current clamp, 15 mm inner diameter, <u>set of 4 pieces</u> Measurement range 0…50A **Order code: 111.7035**	
Current clamp 3 probes CAT III 600V MU-Metal Current clamp, 15 mm inner diameter <u>set of 3 pieces</u> , (special export edition) Measurement range 0…20A **Order code: 111.7003**	

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Accessoires	
Extension cable for current clamps & Rogowski Coils 5m length, for 7-pole Amphenol plug, IP65 **Order code: 111.7025**	
Adapter cable set with 4 mm banana plugs for connection of AC / DC clamp (111.7020) and other manufacturer **Order code: 111.7004**	
Current clamp one probe: 10mA…5A (100mV/A) AC, 4 mm banana plugs *Note: Adapter cable, order code 111.7004 is necessary* **Order code: 111.7043**	

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Accessoires	
AC / DC Current clamp (set) One Current clamp with switchable measurement ranges 60A / 600 A (600mV output), power supply for permanent supply and two 4mm adapter sockets for adapter cable set. The adapter cable set 111.7004 is required additionally and has to be ordered separately. **Order code: 111.7094**	
Magnetic voltage probe, 7mm with 4 mm safety plug (3 x red,1 x blue) 7mm **Order code: 111.7008**	
Magnetic voltage probe, 6mm with 4 mm safety plug (3 x black, 1 x blue) 6mm **Order code: 111.7045**	
Test plug with 4 mm safety banana sockets for voltage Measurement at grounding receptacle universal socket **Order code: 582.0509**	
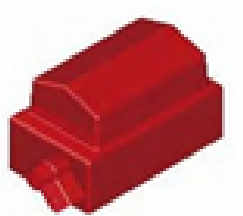
Accessoires	
Variogrip – voltage tap Adjustable voltage tap for hexagon socket screws, 5mm. **Order code: 111.7051**	
Variogrip – voltage tap Adjustable voltage tap for hexagon socket screws, 6mm. **Order code: 111.7052**	
Grip F – voltage tap Adjustable voltage tap for power bars, 0..30mm **Order code: 111.7053**	
Clutch – voltage tap Voltage tap for fast and reliable contact of pins / bolts **Order code: 111.7065**	
Spring Grabber– voltage tap Voltage tap for fast and reliable contact of pins / bolts **Order code: 111.7066**	
Test Tap – voltage tap Voltage tap for fast and reliable contact of sockets **Order code: 111.7067**	
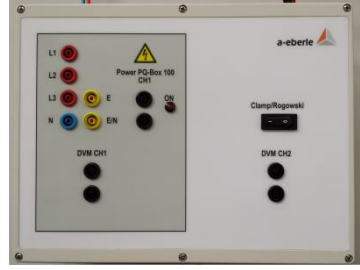
Accessoires	
Fuse voltage probe High performance fuse (1A) with both sides 4mm banana plugs usage with voltage measurement cables of PQ-Box 100. **Order code: 111.7014 .02**	
Dolphin clamps For tapping the measuring voltage for the PQ-Box. The set contains: 3x red, 1x blue, 1x green clamps 1000 V, CAT III / 32 A **Order code: 111.7024**	

Extension of measuring lead
 	
To extant the measuring lead of the PQ-Box.
Length: 2m
 	
Order code: 111.7054.00,   black
          111.7054.01,   red
          111.7054.02, blue	

Accessoires	
Label set for measurement stripes Label set, different colored, to tag measurement stripes for international use. **Order code: 111.7044**	
Measuring adapter 400V, CAT III Adapter 5-phases including plug (**32 A**) and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes **Order code: 111.7042**	
Measuring adapter 400V, CAT III Adapter 5-phases including plug (**16 A**) and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes **Order code: 111.7068**	

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Accessoires	
Measuring adapter, 3-phase, 230V, CAT II Adapter 3-phases including plug and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes **Order code: 111.7056**	
Test plug with 4 mm safety banana sockets for voltage Measurement at 16A CEE socket **Order code: 111.7072**	
Test plug with 4 mm safety banana sockets for voltage Measurement at 32A CEE socket **Order code: 111.7073**	
GPS Clock for PQ-Box radio controlled GPS-clock, RS232 for PQ-Box U_h: H1 or H2, with accessory **Order code: 111.9024.47 (H1)** H1: external AC 85V…110V…264V/DC88V…220V…280V **Order code: 111.9024.48 (H2)** H2: external DC 18V … 60V … 72V	

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Accessoires	
USB – RJ45 extension cable Extension of USB cable via RJ 45, max 45m **Order code: 111.9030.51**	
USB - Ethernet Adapter for remote readout (only PQ-Box 100) **Order code: 111.9030.43**	
UMTS connection for TCP interface To connect the PQ-Box 150/200/300 via UMTS **Order code:** **Basic Unit: Tosibox Lock 100, 111.9030.55** **Stick: Tosibox Key 200, 111.9030.70** **Modem: USB-UMTS(3G) Modem, 111.9030.54** ** Antenna adapter (3G), 111.9030.58** ** USB-LTE (4G) Modem, 111.9030.63** ** Antenna adapter (4G), 111.9030.64** **Antenna: Antenna, 8m cable, 111.9030.59** ** Extension, 10m, 111.9030.60**	

Accessoires	

LEMP Isolation cover

Small LEMP Isolation cover for PQ-Box 100 (only!) to cover measurement equipment during recording at the house connection box.

A simple and really rough case of a weak and steady isolation material allows a maximum way of safety. The cover could be locked by a locker, cable connector or seal at the cable sleeves.

Dimensions: 450x 250x250 mm

Order code: 111.7012

LEMP Isolation cover for PQ-Box, small

LEMP Isolation cover for PQ-Box to cover measurement equipment during recording at house connection-box.
A simple and really rough case of a weak and steady isolation material allows a maximum way of safety.
The cover could be locked by a locker, cable connector or seal at the cable sleeves.

Dimensions: 470x300x240 mm

Order code: 111.7071

LEMP Isolation cover for PQ-Box, large

LEMP Isolation cover for PQ-Box to cover measurement equipment during recording at house connection-box.
A simple and really rough case of a weak and steady isolation material allows a maximum way of safety.
The cover could be locked by a locker, cable connector or seal at the cable sleeves.

Dimensions: 735x435x240 mm

Order code: 111.7086

Accessoires	
Calib Box Calibration set for PQ-Box 100/150/200/300 for connecting a calibrator, (default 230V). Adjustment of all U / I inputs via software with report **Order code: 111.7039**	
Factory calibration current clamp set Measurement points: 1A, 5A, 10A **Order code: 200.0101**	Prüfbescheinigung Test certificate
Factory calibration rogowski coil set Measurement points: 250A, 500A, 1000A **Order code: 200.0102**	Prüfbescheinigung Test certificate
DAkkS calibration of PQ-Box Depending on the complexity of the desired measurement points and test accessories. The PQ-Box, current clamp and / or rogowski coil is checked by an external calibration laboratory and returned with report document. **PQ-Box** **Order code: 200.0201** **current clamp set** **Order code: 200.0202** **rogowski coil set** **Order code: 200.0203** **PQ-Box with** **current clamp set** **Order code: 200.0204** **PQ-Box with** **rogowski coil set** **Order code: 200.0205** **PQ-Box with** **current clamp set and** **rogowski coil set** **Order code: 200.0206**	**esz** **esz AG calibration & metrology** akkreditiert durch die / *accredited by the* **Deutsche Akkreditierungsstelle GmbH** als Kalibrierlaboratorium im / *as calibration laboratory in the* **Deutschen Kalibrierdienst** **DKD**

Accessories	
Carrying box PQ-Box 50 Carrying box with forms for PQ-Box 50 and accessories. Case dimensions 450x 360x 123mm Plastic material, color black, Weight 1500 g **Order code: 582.0040**	
Carrying bag PQ-Box 50 Carrying bag, textile with forms for PQ-Box 50 and accessories Bag dimensions 420x 340x 85mm Weight 1.300 g **Order code: 582.0032.01**	
Protection cover Protection cover for PQ-Box 50 A simple and really rough case to protect your PQ-Box 50. Material color black **Order code: 564.0515**	
Battery- Pack for PQ-Box 50 For PQ-Box 50 **Order code: 570.0015**	

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Accessoires	
PQ-Box 50 Upgrade Basic (B0) to Light (B1) **Order code: 900.9298** Note: serial number required	PQ-Box 50 **PQ-Box 50** **Upgrade: Basic - Light** **Feature: B1**
PQ-Box 0 Upgrade Light (B1) to Expert (B2) **Order code: 900.9299** Note: serial number required	PQ-Box 50 **PQ-Box 50** **Upgrade: Light to Expert** **Feature: B2**
PQ-Box 50 Upgrade Basic (B0) to Expert (B2) **Order code: 900.9297** Note: serial number required	PQ-Box 50 **PQ-Box 50** **Upgrade: Basic to Expert** **Feature: B2**
PQ-Box 50 Upgrade Ripple control analysis (R0) to (R1) **Order code: 900.9296** Note: serial number required	PQ-Box 50 **PQ-Box 50** **Upgrade: RSA** **Feature: R1**
PQ-Box 50, Service package I Recalibration with certificate and inspection sticker **Order code: 200.0013**	**Prüfbescheinigung** **Test certificate**

Accessories	
Carrying box PQ-Box 100 Carrying box with forms for PQ-Box 100 and accessories. Case dimensions 534x 427x 157mm Plastic material, Weight 3.900 g **Order code: 582.0033**	
Carrying bag PQ-Box 100 Carrying bag, textile with forms for PQ-Box 100 and accessories Bag dimensions 420x 340x 85mm Weight 1.300 g **Order code: 582.0032.01**	
Protection cover Protection cover for PQ-Box 100 A simple and really rough case to protect your PQ-Box 100. Material color orange **Order code: 564.0500**	

Accessoires	
PQ-Box 100 Upgrade Basic (B0) to Light (B1) **Order code: 900.9090** Note: serial number required	PQ-Box 100 **PQ-Box 100** **Upgrade: Basic - Light** **Feature: B1**
PQ-Box 100 Upgrade Light (B1) to Expert (B2) **Order code: 900.9091** Note: serial number required	PQ-Box 100 **PQ-Box 100** **Upgrade: Light to Expert** **Feature: B2**
PQ-Box 100 Upgrade Basic (B0) to Expert (B2) **Order code: 900.9093** Note: serial number required	PQ-Box 100 **PQ-Box 100** **Upgrade: Basic to Expert** **Feature: B2**
PQ-Box 100 Upgrade Ripple control analysis (R0) to (R1) **Order code: 900.9092** Note: serial number required	PQ-Box 100 **PQ-Box 100** **Upgrade: RSA** **Feature: R1**
PQ-Box 100, Service package I Recalibration with certificate and inspection sticker **Order code: 200.0001**	**Prüfbescheinigung** **Test certificate**
PQ-Box 100, Service package II Recalibration with certificate and inspection sticker New Akku New SD-Karte, 2GByte **Order code: 200.0002**	**Prüfbescheinigung** **Test certificate**

Zubehör	
Carrying box PQ-Box 150 Carrying box with forms for PQ-Box 150 and accessories. Case dimensions 534x 427x 157mm Plastic material, Weight 3.900 g **Order code: 582.0038**	
PQ-Box 150 Upgrade Basic (B3) to Basic+ (B2) **Order code: 900.9398** Note: serial number required	PQ-Box 150 **PQ-Box 150** **Upgrade: Basic to Basic+** **Feature: B3 → B2**
PQ-Box 150 Upgrade Basic+ (B2) to Light (B0) **Order code: 900.9390** Note: serial number required	PQ-Box 150 **PQ-Box 150** **Upgrade: Basic+ to Light** **Feature: B2 → B0**
PQ-Box 150 Upgrade Light (B0) to Expert (B1) **Order code: 900.9391** Note: serial number required	PQ-Box 150 **PQ-Box 150** **Upgrade: Light to Expert** **Feature: B0 → B1**
PQ-Box 150 Upgrade Basic+ (B2) auf Expert (B1) **Order code: 900.9393** Note: serial number required	PQ-Box 150 **PQ-Box 150** **Upgrade: Basic+ to Expert** **Feature: B2 → B1**
PQ-Box 150 Upgrade Basic (B3) to Light (B0) **Order code: 900.9399** Note: serial number required	PQ-Box 150 **PQ-Box 150** **Upgrade: Basic to Light** **Feature: B3 → B0**
PQ-Box 150 Upgrade Basic (B3) auf Expert(B1) **Order code: 900.9400** Note: serial number required	PQ-Box 150 **PQ-Box 150** **Upgrade: Basic to Expert** **Feature: B3 → B1**

Zubehör	
PQ-Box 150 Upgrade Ripple control analyses (R0) to (R1) **Order code: 900.9392** Note: serial number required	PQ-Box 150 **PQ-Box 150 Upgrade: RSA Feature: R1**
PQ-Box 150 Upgrade Wifi (S0) to (S1) **Order code: 900.9397** Note: serial number required	PQ-Box 150 **PQ-Box 150 Upgrade: Wifi Feature: S1**
PQ-Box 150, Service package I Recalibration with certificate and inspection sticker **Order code: 200.0031**	Prüfbescheinigung Test certificate

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Accessoires	
Carrying box PQ-Box 200 Carrying box with forms for PQ-Box 200 and accessories Case dimensions 534x 427x 157mm plastic material, weight 3.900 g **Order code: 582.0035**	
Protection braces for PQ-Box 200 Protection braces for PQ-Box 200 set of 2 pieces with strap, Material color orange **Order code: 564.0510**	
PQ-Box 200 Upgrade Ripple control analyses (R0) auf (R1) **Order code: 900.9094** Note: serial number required	PQ-Box 200 **PQ-Box 200 Upgrade: RSA Feature: R1**
PQ-Box 200 Upgrade Wifi (S0) to (S1) **Order code: 900.9396** Note: serial number required	PQ-Box 200 **PQ-Box 200 Upgrade: Wifi Feature: S1**
PQ-Box 200 Upgrade **Transient measuring board** (T0) auf (T1) **Order code: 200.0020** Note: device must be sent in for retrofitting	PQ-Box 200 **PQ-Box 200 Upgrade: Transientenkarte Feature: T1**
PQ-Box 200, Service package I Recalibration with certificate and inspection sticker **Order code: 200.0011**	Prüfbescheinigung Test certificate

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Accessoires	
Carrying box PQ-Box 300 Carrying box with forms for PQ-Box 300 and accessories Case dimensions 534x 427x 157mm plastic material, Weight 3.900 g **Order code: 582.0039**	
Protection braces for PQ-Box 300 Protection braces for PQ-Box 300 set of 2 pieces with strap, Material color black **Order code: 564.0514**	
PQ-Box 300 Upgrade Ripple control analyses (R0) auf (R1) **Order code: 900.9394** Note: serial number required	PQ-Box 300 **PQ-Box 300 Upgrade: RSA Feature: R1**
PQ-Box 200 Upgrade Wifi (S0) to (S1) **Order code: 900.9395** Note: serial number required	PQ-Box 300 **PQ-Box 300 Upgrade: Wifi Feature: S1**
PQ-Box 300, Service package I Recalibration with certificate and inspection sticker **Order code: 200.0012**	Prüfbescheinigung Test certificate

Accessoires	
Carrying bag PQ-Box 150/200/300 Carrying bag textile with forms for PQ-Box 150/200/300 and accessories. Case dimensions 475x 365x 65 mm, Weight 600 g **Order code: 582.0036**	
Locker for PQ-Box 150/200/300 Locker with steel cable (length 1,8 m)to lash PQ-Box 150/200/300. **Order code: 111.7032**	

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Accessoires	
Adapter cable set for PQ-Box 200/300 with 4 mm banana plugs for connection of AC / DC clamp (111.7020) and other manufacturer **Order code: 111.7028**	
Irradiance sensor and temperature probe Irradiance sensor and temperature probe for PQ-Box 200/300 Measurement range: 0..1000W/m², -30..70°C, 0..1V The power supply 111.7049 is required additionally and has to be ordered separately. **Order code: 111.7040**	
Temperature sensor probe Temperature sensor probe for PQ-Box 200/300 Measurement range: 20..80°C – 0..1V The power supply 111.7049 is required additionally and has to be ordered separately. **Order code: 111.7041**	
Power supply Power supply 230V AC, Output 15V DC, 400 mA **Order code: 111.7049**	

Accessoires	
DCF 77 Radio controlled clock for PQ-Box 150/200/300 DCF 77 Radio controlled clock for PQ-Box incl. rotating wall holder, connection cable and documentation output: RS232 **Order code: 111.9024.01**	
Wide range power supply for PQ-Box 150/200/300 Range: 88V … 500V AC / 100V …300V DC 600V CAT IV, IP 65, Set with two adapter cables **Order code: 111.7069**	
Adapter cable As a junction at a measuring point **For use with power supply you need two pieces** **Order code: 582.2037**	

Wide range power supply Set
    1x Wide range power supply (111.7069)
    1x Test plug (582.0509)
    2x Adapter cable (582.2037)
 	
Order code: 111.7069.10	

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Accessoires	
Battery- Pack for PQ-Box 150/200/300 For PQ-Box 150/200/300 **Order code: 570.0011**	
Micro-SD-Card 4GB for PQ-Box 150/200/300 For PQ-Box 150/200/300 **Order code: 900.9098.04**	
Micro-SD-Card 8GB for PQ-Box 150/200/300 For PQ-Box 150/200/300 **Order code: 900.9098.08**	

Netzanalysator Typ	PQ-Box 50			PQ-Box 150				PQ-Box 200		PQ-Box 300
Gerätevariante	Basic	Light	Expert	Basic	Basic+	Light	Expert	T0	T1	HF
Speichergröße in Gbyte (Speicher optional)	1			4 (32)				4 (32)		8 (32)
Abtastfrequenz Spannung	20,46 kHz			20,46 kHz				40,96 kHz		409,60 kHz
Abtastfrequenz Strom	20,46 kHz			20,46 kHz				40,96 kHz		40,96 kHz
Abtastfrequenz Transientenmesskarte	–			–				–	4 MHz	409,60 kHz
Eingänge Spannung (Auflösung AD-Wandler)	4 (16-bit)			4 (24-bit)				4 (24-bit)		4 (24-bit)
Eingänge Strom	4 (16-bit)			4 (24-bit)				5 (24-bit)		5 (24-bit)
Betriebszeit über Akku	4,0 h			4,0 h				4,0 h	3,5 h	3,5 h
Schutzklasse	IP65			IP65				IP65		IP65
Analogeingang (1000 mV)	–	–	–	–	–	–	–	•	•	•
Binäreingang (0-250 V AC/DC)	–	–	–	–	–	–	–	•	•	•
Automatische Normauswertung und Ereigniserfassung nach EN50160/IEC 61000-2-2/IEC 61000-2-12/IEC 61000-2-4 (Klasse 1; 2; 3)/NRS048 /IEEE 519/VDE AR-4105	–	•	•	–	•	•	•	•	•	•
Aufzeichnung freies Intervall 1 sec bis 30 min:										
Aufzeichnung 200 msec und 3 sec Intervall zusätzlich zu freiem Intervall	–			•	•	•	•	•	•	•
Spannung & Strom: Mittel-, ½ Perioden-Minimal-, Maximalwert	•	•	•	•	•	•	•	•	•	•
Leistung: P, Q, S, PF, cos(φ), sin(φ), tan(φ)	•	•	•	•	•	•	•	•	•	•
Verzerrungs-, Grundschwingungs-, Modulations-, Unsymmetrieblindleistung	•	•	•	•	•	•	•	•	•	•
Energie: P, Q, P+, P-, Q+, Q-	•	•	•	•	•	•	•	•	•	•
Flicker (Pst, Plt, Pinst)	–	•	•	–	•	•	•	•	•	•
Unsymmetrie Strom und Spannung; Gegensystem, Mittsystem, Nullsystem	•	•	•	–	•	•	•	•	•	•
Spannungsharmonische nach IEC 61000-4-30 Ed. 3 Class A - bis H50.	–	•	•	–	•	•	•	•	•	•
Spannungsharmonische Extremwerte 2. bis 50. (200 ms RMS)	–	–	–	–	–	•	•	•	•	•
Phasenwinkel der Spannungs- und Stromharmonischen	–	–	–	–	–	•	•	•	•	•
Spannungsharmonische 200 Hz Frequenzbänder - 2 kHz bis 9 kHz (IEC 61000-4-7)	–	–	–	–	–	–	•	•	•	•
Supraharmonische 2 kHz bis 170 kHz (200 Hz / 2 kHz Frequenzbänder)	–	–	–	–	–	–	–	–	–	–
Stromharmonische 2. bis 50.	–	•	•	–	•	•	•	•	•	•
Stromharmonische Extremwerte 2. bis 50. (200 ms RMS)	–	–	–	–	–	•	•	•	•	•
Stromharmonische 200 Hz Frequenzbänder 2 kHz bis 9 kHz	–	–	–	–	–	–	•	•	•	•
Wirk-, Blind-, Scheinleistung und Phasenwinkel Harmonische	–	–	–	–	–	•	•	•	•	•
THD U und I ; PWHD U und I ; PHC	•	•	•	•	•	•	•	•	•	•
FFT Berechnung bis	–	10 kHz		–	–	10 kHz		20 kHz		170 kHz
Rundsteuersignal 100 Hz bis 3 kHz (200 ms RMS Maximalwerte)	–	–	•	–	–	•	•	•	•	•
Frequenz, 10 sec, Mittel-, Minimal-, Maximalwert	•	•	•	•	•	•	•	•	•	•
10/15/30 min Intervall Leistungswerte P, Q, S, D, cos(φ), sin(φ), tan(φ)	•	•	•	•	•	•	•	•	•	•
Online Modus										
Oszilloskopbild - Abtastfrequenz	20,46 kHz			20,46 kHz				40,96 kHz		409,60 kHz
Leistungsdreieck 3D für Wirk-, Blind, Schein- und Verzerrungsblindleistung	–	•	•	•	•	•	•	•	•	•
Spannungs-, Strom-, Zwischenharmonische (U,I)	–	•	•	–	•	•	•	•		•
Online Spektralanalse	–	–	DC bis 10 kHz	–	DC bis 10 kHz			DC bis 20 kHz		DC bis 200 kHz
Spannungs-, Stromharmonische 200 Hz Frequenzbänder - 2 kHz bis 9 kHz	–	–	–	–	–	–	•	•	•	•
Supraharmonische bis 200 kHz (200 Hz; 2 kHz Frequenzbänder)	–	–	–	–	–	–	–	–	–	•
Richtung der Harmonischen und Phasenwinkel Stromharmonische	–	–	•	–	–	•	•	•	•	•
Triggerfunktionen (Oszilloskop / TRMS)										
Manueller Trigger über Taste	–	–	–	–	•	•	•	•	•	•
Effektivwert-Trigger Unterschreitung und Überschreitung (U, I)	–	–	•	–	•	•	•	•	•	•
Effektivwert-Trigger Sprung (U, I)	–	–	•	–	•	•	•	•	•	•
Frequenztrigger Unterschreitung, Überschreitung, Sprung	–	–	•	–	–	•	•	•	•	•
Phasensprung-Trigger	–	–	•	–	–	•	•	•	•	•
Hüllkurven-Trigger	–	–	•	–	–	•	•	•	•	•
Intervall-Trigger; Automatik-Trigger	–	–	•	–	–	•	•	•	•	•
Trigger auf Binäreingang (0 – 250 V AC/DC; Schwelle 10 V)	–	–	–	–	–	–	–	•	•	•
Option R1 Rundsteueranalyse Rekorder für Spannung und Strom 100 Hz bis 3 kHz	R1	R1	R1	R1	R1	R1	R1	R1	R1	R1
Option S1 WLAN / Wifi	•	•	•	S1	S1	S1	S1	S1	S1	S1

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Warranty Conditions:

Warranty: 1 year from date of delivery for accessories & 3 years for PQ-Boxes.

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http://www.a-eberle.de

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